

Cybersecurity Professional Program Introduction to Python for Security

Functions

PY-05-L4
Main Identification

***** Lab Objective

Understand the value of the __main__ variable and how to use it in code.



Lab Mission

Prepare a program that executes only if its main file is run directly.



15-25 minutes



Basic knowledge of Python



- **Environment & Tools**
 - Windows or Linux
 - PyCharm
 - Python 3

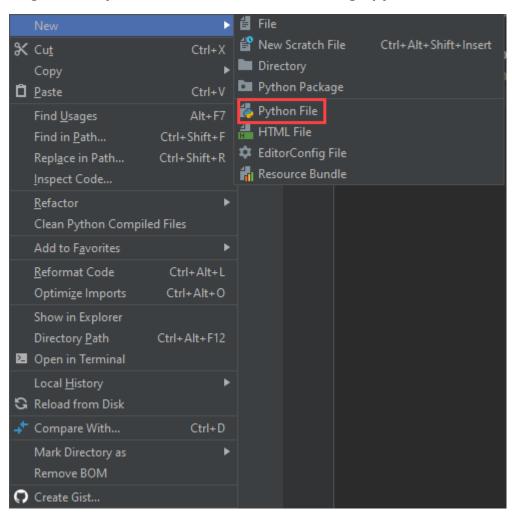


- Chapter 5: Functions
 - Section 2: Code Handling

Lab Task: Main Identification

Execute a Python file by checking if it is directly executed and understanding the mechanism.

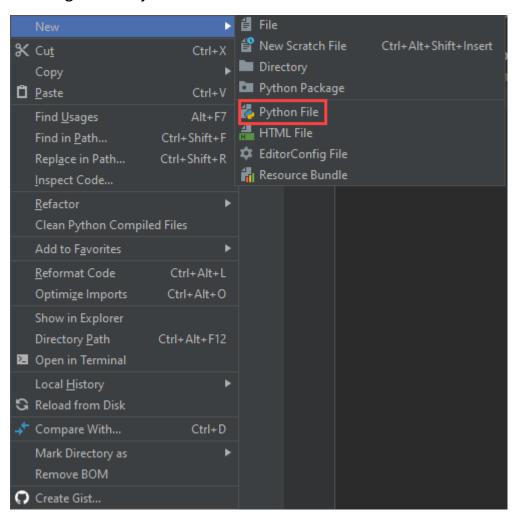
Create a new Python file in PyCharm by right-clicking the project you created and selecting New > Python File. Name this file message.py.



2 Define a new function that prints the file name in *message.py*.

```
def main():
    print("Hello from:", __name__)
```

3 Create a second Python file in PyCharm by right-clicking the project you created and selecting **New** > **Python File**.



4 Import to the file the previous file.

import message

5 Create a new function.

def main():

6 Within the function, invoke the main function of the imported file.

```
def main():
    message.main()
```

7 Outside of the function, create a condition that checks if the current file is directly executed.

```
if __name__ == '__main__':
```

8 Within the condition, print the file's name and invoke the main function of the file.

```
if __name__ == '__main__':
    print(__name__)
    main()
```

9 Run the file.